PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FR920030069/PCT				FOR FURTHER AC	HON	See Notification Preliminary Exa	of Transmitt amination Re	aREC'IN IN IN INC. 2005 out (Form PCT/IPEA/416) WIPO PCT
International application No.			cation No.	International filing date (day/mon	th/year)	Priority date	(day/montir/year)
	PCT/EP2004/052911			10.11.2004			10.12.200	
H04	L29/0		nt Classification (IPC) or bo 06F17/30	oth national classification a	ind IPC			
Appli INTI		TIOI	NAL BUSINESS MAC	HINES CORPORATI	ON et	al.		
1.	. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2.	This	REP	ORT consists of a total of	of 5 sheets, including th	nis cove	r sheet.		
	☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	Thes	e anr	nexes consist of a total o	of sheets.				
2	Th!-	ron	t contains indications	lating to the following "	ame:			
3.	ı nıs		t contains indications re	riaung to the following it	ems.			
	I 		Basis of the opinion					
	11		Priority					A 12 - 12 - 12 - 12 - 12 - 12 - 12
	III			opinion with regard to n	ovelty, i	nventive step a	ınd ındustria	u applicability
	IV V	V ☒ Reasoned statement under Rule 66.					ventive step	or industrial applicability;
	·			ions supporting such sta			•	• •
	V!		Certain documents cit					
	VII			international application				
	VIII	Ц	Certain observations of	on the international appl	lication			
Date	of sub	missio	on of the demand		Date o	f completion of th	is report	
27.09.2005 Name and mailing address of the international				01.12.2005				
				Author	ized Officer		at Patro	
preliminary examining authority: European Patent Office - P.B. 5818 Patentiaan 2 NI-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016				iekens, J ione No. +31 70 3	340-1965			
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2004/052911

I. B	asis	of	the	re	po	rt
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages						
	1-7		as originally filed					
	Cla	ims, Numbers						
	1-6		as originally filed					
	Dra	wings, Sheets						
	1/3-	3/3	as originally filed					
With regard to the language, all the elements marked above were available or furnished to this Author language in which the international application was filed, unless otherwise indicated under this item.								
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of publication of the international application (under Rule 48.3(b)).						
		the language of a tra Rule 55.2 and/or 55.	guage of a translation furnished for the purposes of international preliminary examination (under 5.2 and/or 55.3).					
3.	Witl inte	n regard to any nucle rnational preliminary	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the inte	rnational application in written form.					
		filed together with th	e international application in computer readable form.					
☐ furnished subsequently to this Authority			ntly to this Authority in written form.					
		furnished subsequer	ntly to this Authority in computer readable form.					
		The statement that t in the international a	he subsequently-furnished written-sequence-listing does not go beyond the disclosure pplication as filed has been furnished.					
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have	ve
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).	

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: No:

Yes: Claims

1-6

Inventive step (IS)

Yes: Claims

1-6

1-6

No:

Claims

Claims

Yes: Claims

No: Claims

2. Citations and explanations

Industrial applicability (IA)

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- Reference is made to the following documents: 1
 - D1: GB-A-2 333 617 (IBM) 28 July 1999 (1999-07-28)
 - D2: ROSELI PERSSON HANSEN, CASSIA T. SANTOS, SÉRGIO CRESPO C. S. PINTO, G. L. LANIUS, F. MASSEN: "Web Services: An Architectural Overview" FIRST SEMINAR ON ADVANCED RESEARCH IN ELECTRONIC BUSINESS, [Online] 7 November 2002 (2002-11-07), pages 1-14, XP002313934 RIO DE JANEIRO, RJ - BRAZIL Retrieved from the Internet: URL:http://www.inf.unisinos.br/~webcompose j/Artigos/webservices.pdf>
- The document D1 is regarded as being the closest prior art to the subject-matter 2 of claim 1, and shows (the references in parentheses applying to this document):

A method of redirecting a request for a web service in a data transmission network such as the Internet (D1, Figure 13), wherein, in response to a request forwarded by a host of a client browser to a web service provider (D1, Figure 13, ref 1), where the request is sent using the old address of the web service (D1, Figure 13, ref 503), responding to the client from the web service point associated with the old address by sending back a message comprising the new address redirection of the requested web service (D1, Figure 13, ref 2) and forwarding a second request from the client to the new address of said web service (D1, Figure 13, ref 5)

The subject-matter of claim 1 differs from this known method in that the web service provider provides a Web Service Definition Language (WSDL) file based upon a message exchange protocol such as SOAP on a transport protocol (for example HTTP) and where the new address in the response message is contained in the header of the used message exchange profocol.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as how can a redirection mechanism be provided for web services independent from the transport protocol.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

D1 discloses a redirect mechanism for XML documents using HTTP protocol only, whereas the present invention proposes a redirect mechanism for XML documents using SOAP messaging protocol. The redirection is not performed at the transport level (HTTP, jms, ect) but at the message level (SOAP for web services communication). The redirection mechanism of the current invention can be applied to all web services and is not limited to web services running on HTTP.

Document D2 explains how web services work. In view of D1 and D2, it would have been obvious for the skilled man to use the HTTP redirection mechanism for web services. The new and non-obvious aspect of the claimed invention is to adapt the HTTP (transport protocol) redirection concepts to SOAP (message protocol) to ensure a redirection for all web services. Since none of the prior art documents discloses the problem as mentioned, it would appear the subject-matter of claim 1 cannot be realised combining D1 and D2 without involvement of an inventive step.

- The subject-matter of independent claim 4 corresponds with the subject-matter of claim 1 but defined in system features. Therefore, claim 4 is also considered to be novel and inventive.
- Claims 2-3,5-6 are dependent on respectively claims 1 and 4 and as such also meets the requirements of the PCT with respect to novelty and inventive step.